

# CATCH

## Cybersecurity Applications and Technology for Homeland Security

### Day 1: March 3, 2009

#### BALLROOM B

- 09:00 WELCOME**  
Douglas Maughan, Ph.D.  
Program Manager, Cyber Security R&D  
Science and Technology Directorate, DHS
- 09:10 DHS S&T WELCOME**  
David Boyd, Ph.D.  
Director, Command, Control and Interoperability Division (CID)  
Science and Technology Directorate, DHS
- 09:30 KEYNOTE ADDRESS**  
The Honorable James R. Langevin  
U.S. House of Representatives (RI)
- 10:00 BREAK**
- 10:30 SESSION 1 – BOTNETS AND MALWARE**  
**Effective Flow Filtering for Botnet Search  
Space Reduction**  
Robert Walsh, BBN Technologies  
**Real-Time Detection of Fast Flux Service Networks**  
Alper Caglayan, Milcord LLC  
**A Combined Fusion and Data Mining Framework for the  
Detection of Botnets**  
Owen McCusker, Sonalysts, Inc.
- 12:00 LUNCH (ON YOUR OWN)**
- 13:30 SESSION 2 – INTERNET ROUTING AND SECURITY**  
**Progress Toward Securing the Routing Infrastructure**  
Sandra Murphy, SPARTA, Inc.  
**BGPmon: A real-time, scalable, extensible monitoring  
system**  
Dan Massey, Colorado State University  
**A Comparative Analysis of BGP Anomaly Detection and  
Robustness Algorithms**  
Kotikapaludi Sriram, NIST
- 15:00-19:00 EXPO (BALLROOM A)**

### Day 2: March 4, 2009

#### BALLROOM B

- 08:30 WELCOME**  
Douglas Maughan, Ph.D.  
Program Manager, Cyber Security R&D  
Science and Technology Directorate, DHS
- 08:45 KEYNOTE ADDRESS**  
Pascal Levensohn  
Founder & Managing Partner  
Levensohn Venture Partners
- 09:30 BREAK**
- 10:00 SESSION 3 – CYBERSECURITY RESEARCH  
INFRASTRUCTURE**  
**Current Developments in DETER Cybersecurity Testbed  
Technology**  
Terry Benzel, USC ISI  
**Uses and Challenges for Network Datasets**  
John Heidemann, USC ISI  
**How to Test DoS Defenses**  
Roshan K. Thomas, SPARTA, Inc.
- 11:30 LUNCH (ON YOUR OWN)**
- 13:00 PANEL**  
Rod Beckstrom, DHS National Cyber Security Center  
John Large, U.S. Secret Service  
John Nagengast, AT&T  
Roger Novak, Novak Biddle Venture Partners  
Shankar Sastry, University of California, Berkeley
- 14:30 BREAK**
- 15:00 SESSION 4 – DOMAIN NAME SYSTEM SECURITY  
(DNSSEC) AND DATA VISUALIZATION**  
**DNSSEC in Practice: Using DNSSEC-Tools to Deploy DNSSEC**  
Russ Mundy, SPARTA Inc.  
**Deploying DNS Security (DNSSEC) in Large-Scale Operational  
Environments**  
Joe Gersch, Secure64 Software Corporation  
**FloVis: Flow Visualization System**  
Carrie Gates, CA Labs
- 16:30 CONCLUSION**